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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/931,107	08/17/2001	Kiyokazu Murai	WN-2380	8679

7590 08/25/2004

McGinn & Gibb, PLLC,
Suite 200
8321 Old Courthouse Road
Vienna, VA 22182-3817

EXAMINER

DAVIS, TEMICA M

ART UNIT	PAPER NUMBER
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2681

DATE MAILED: 08/25/2004

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/931,107

Applicant(s)

MURAI

Examiner

Temica M. Davis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, and 3-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Rune et al (Rune), U.S. Patent No. 6,643,511.

Regarding claim 1, Rune discloses a mobile communication system comprising a mobile station (col. 1, lines 24-53), a radio network for radio transmission and reception to and from said mobile station (col. 1, lines 24-53), a home location register for managing, through a mobile services-switching center, current location information representative of a current location of said mobile station in a public telephone network (HPLMN) (col. 3, lines 61-64, col. 4, lines 33-39), a home agent (GLR/SGSN) for managing, through a packet gateway, current location information representative of a

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current location of said mobile station in a packet data communication network (GPRS) (col. 3, lines 60-67, col. 5, lines 43-46), and a communication channel connecting said home location register and said home agent to each other for transmission of update contents for the current location information managed by said home location register and said home agent and wherein each of said home location register and said home agent comprises location information update units responsive to the update contents for updating the current location information managed by said home location register and said home agent, respectively, and said home location register further comprises a subscriber register for remotely carrying out subscriber registration of said mobile station into said home agent through said communication channel (col. 2, lines 20-33).

Regarding claim 3, Rune discloses a mobile communication system as claimed in claim 1, wherein at least one of said home location register and said home agent further comprises a current location information conversion table for converting an indication format of the current location information managed by said at least one of the home location register and the home agent as evidenced by the fact that the HLR and GLR (in different systems) can communicate with each other (col. 5, lines 52-65, col. 13, line 39-col. 14, line 24).

Regarding claim 4, Rune discloses a mobile communication system as claimed in claim 1, wherein said communication channel comprises a network connection utilizing a TCP/IP (Transmission Control Protocol/Internet Protocol) network, and the identifying information of said home agent comprises a network address of said home agent on said TCP/IP network (col. 5, lines 52-65, col. 18, line 59-col. 19, line 12).

Regarding claim 5, Rune discloses a mobile communication system as claimed in claim 1, wherein said packet data communication network comprises an internet (col. 5, lines 52-65).

Regarding claim 6, Rune discloses a current location information matching method for a mobile communication system which comprises a mobile station (col. 1, lines 24-53), a radio network for radio transmission and reception to and from said mobile station (col. 1, lines 24-53), a home location register for managing, through a mobile services-switching center, current location information representative of a current location of said mobile station in a public telephone network (col. 3, lines 24-30), and a home agent for managing, through a packet gateway, current location information representative of a current location of said mobile station in a packet data communication network (col. 3, lines 60-67, col. 5, lines 43-46), said method comprising connecting said home location register and said home agent to each other through a communication channel (col. 5, lines 52-65, col. 13, line 39-col. 14, line 24); in said home location register, updating the current location information of said mobile station in said public telephone network in response to a current location report transmitted from said mobile station to said radio network during mobile communication on said public telephone network and providing updated location information through said communication channel to said home agent (col. 4, line 53-col. 5, line 4); in said home agent, updating the current location information of said mobile station in said packet data communication network in response to a current location report transmitted from said mobile station to said radio network during packet data communication , and

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providing updated location information through said communication channel to said home location register (col. 4, line 53-col. 5, line 4).

Regarding claim 7, Rune discloses a mobile communication system comprising a mobile station (col. 1, lines 24-53), a radio network for radio transmission and reception to and from said mobile station (col. 1, lines 24-53), a home location register for managing, through a mobile services-switching center, current location information representative of a current location of said mobile station in a public telephone network (HPLMN) (col. 3, lines 61-64, col. 4, lines 33-39), a home agent (GLR/SGSN) for managing, through a packet gateway, current location information representative of a current location of said mobile station in a packet data communication network (GPRS) (col. 3, lines 60-67, col. 5, lines 43-46), and a communication channel connecting said home location register and said home agent to each other for transmission of update contents for the current location information managed by said home location register and said home agent, wherein said home location register comprises a home agent register for registering in said home location register, identifying information of said home agent corresponding to said mobile station (col. 6, lines 33-44, col. 18, line 33-col. 19, line 6) and a subscriber register for remotely carrying out subscriber registration of said mobile station into said home agent through said communication channel (col. 12, lines 20-33).

Regarding claim 8, Rune discloses a mobile communication system as claimed in claim 7, wherein at least one of said home location register and said home agent further comprises a current location information conversion table for converting an

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indication format of the current location information managed by said at least one of the home location register and the home agent as evidenced by the fact that the HLR and GLR (in different systems) can communicate with each other (col. 5, lines 52-65, col. 13, line 39-col. 14, line 24).

Regarding claim 9, Rune discloses a mobile communication system as claimed in claim 7, wherein said communication channel comprises a network connection utilizing a TCP/IP (Transmission Control Protocol/Internet Protocol) network, and the identifying information of said home agent comprises a network address of said home agent on said TCP/IP network (col. 5, lines 52-65, col. 18, line 59-col. 19, line 12).

Regarding claim 10, Rune discloses a mobile communication system as claimed in claim 7, wherein said packet data communication network comprises an internet (col. 5, lines 52-65).

Regarding claim 11, Rune discloses a mobile communication system as claimed in claim 1, wherein said home location register further comprises a home agent register for registering, in said home location register, identifying information of said home agent corresponding to said mobile (col. 6, line 33-44, col. 18, line 33-col. 19, line 6).

Regarding claim 12, Rune discloses a mobile communication system as claimed in claim 1, wherein a packet data communication service subscriber is registered in the home location register is simultaneously registered in the home agent (i.e., while roaming) (col. 4, line 24-col. 5, line 4).

Regarding claim 13, Rune discloses a mobile communication system as claimed in claim 6, wherein a packet data communication service subscriber is registered in the

home location register is simultaneously registered in the home agent (i.e., while roaming) (col. 4, line 24-col. 5, line 4).

Regarding claim 14, Rune discloses a mobile communication system as claimed in claim 7, wherein a packet data communication service subscriber is registered in the home location register is simultaneously registered in the home agent (i.e., while roaming) (col. 4, line 24-col. 5, line 4).

Regarding claim 15, Rune discloses a mobile communication system as claimed in claim 1, wherein a packet data communication service subscriber is registered in the home location register is automatically registered in the home agent (while roaming) (col. 4, line 53-col. 5, line 4, col. 8, lines 26-58).

Regarding claim 16, Rune discloses a mobile communication system as claimed in claim 6, wherein a packet data communication service subscriber is registered in the home location register is automatically registered in the home agent (while roaming) (col. 4, line 53-col. 5, line 4, col. 8, lines 26-58).

Regarding claim 17, Rune discloses a mobile communication system as claimed in claim 7, wherein a packet data communication service subscriber is registered in the home location register is automatically registered in the home agent (while roaming) (col. 4, line 53-col. 5, line 4, col. 8, lines 26-58).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lupien et al, U.S. 6,389,008.

Barnes et al, U.S. Patent No. 6,711,147.

Billström et al, U.S. Patent No. 5,590,133.

Ahmed et al, U.S. Patent No. 6,160,804.

Jokiaho et al, U.S. Patent No. 5,889,770.

Frid et al, U.S. Patent No. 6,137,791.

Palkisto, U.S. Patent No. 6,505,047.

Mizutani et al, U.S. Patent No. 6,731,621.

Shobatake et al, U.S. Patent No. 6,654,607.

Ahmed et al, U.S. Patent No. 6,747,961.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Davis whose telephone number is (703) 306-5837. The examiner can normally be reached on Monday-Thursday (alternate Fridays) 8:00am-5:00pm.

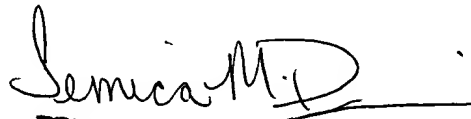
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (703) 308-4825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Temica M. Davis
Examiner
Art Unit 2681

August 21, 2004


TEMICA M. DAVIS
PATENT EXAMINER